

### **Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of claims:**

1. (currently amended) A method of manufacturing a bioactive fluid dose on an ingestible sheet, comprising the steps of:  
    advancing the ingestible sheet to a dispense position; [and]  
    activating a fluid ejector to eject [dispense] at least one drop of a bioactive fluid [onto the ingestible sheet];  
    dispensing the bioactive fluid in a two-dimensional array onto the ingestible sheet; and  
    forming an array of bioactive deposits on the ingestible sheet.
2. (original) The method of claim 1, further comprising the step of printing manufacturing information onto the ingestible sheet.
3. (currently amended) The method of claim 2, wherein said step of printing further comprises the step of printing said manufacturing information onto the ingestible sheet in a machine detectable [understood] form.
4. (original) The method of claim 2, wherein said step of printing further comprises the step of printing said manufacturing information onto the ingestible sheet in a human-perceptible form.
5. (original) The method of claim 2, wherein said step of printing further comprises the step of ejecting an ingestible ink from at least one ink ejector fluidically coupled to an ink reservoir onto the ingestible sheet.
6. (original) The method of claim 1, further comprising the step of sealing the dispensed bioactive fluid on the ingestible sheet.

7. (original) The method of claim 6, wherein the step of sealing further comprises the step of activating a second fluid ejector to eject a barrier component fluid over the dispensed bioactive fluid.

8. (original) The method of claim 1, wherein the step of activating further comprises the step of activating said first fluid ejector to eject a predetermined number of ejections of the bioactive fluid.

9. (canceled).

10. (currently amended) The method of claim [9]1, wherein the [dosage form] step of dispensing further comprises dispensing the bioactive fluid onto a dosage form having a first edge and a second edge, wherein the density of the bioactive [fluid] deposits varies between the first edge and the second edge, whereby a gradient in a bioactive [fluid gradient] agent is formed.

11. (currently amended) The method of claim 10, wherein the step of dispensing further comprises dispensing the bioactive fluid onto the dosage form having the [bioactive fluid] gradient in the bioactive agent [is] adapted to provide [a] an increasing dosage form wherein after being ingested the amount of the bioactive [fluid]agent released increases over time.

12. (currently amended) The method of claim 10, wherein the step of dispensing further comprises dispensing the bioactive fluid onto the dosage form having the [bioactive fluid] gradient in the bioactive agent [is] adapted to provide a decreasing dosage form wherein after being ingested the amount of the bioactive [fluid]agent released decreases over time.

13. (currently amended) The method of claim 10, wherein the step of dispensing further comprises dispensing the bioactive fluid onto the dosage

form having the [bioactive fluid] gradient in the bioactive agent [is] adapted to provide a constant dosage form wherein after being ingested the amount of the bioactive [fluid]agent released remains constant over time.

14. (currently amended) The method of claim 10, wherein the step of dispensing further comprises dispensing the bioactive fluid onto the dosage form having the [bioactive fluid] gradient in the bioactive agent [is] adapted to provide a repeatable dosage form wherein after being ingested a discrete amount of the bioactive [fluid]agent is released in a repeatable manner over time.

15. (currently amended) The method of claim 10, wherein the step of dispensing further comprises dispensing the bioactive fluid onto the dosage form having the [bioactive fluid] gradient in the bioactive agent [is] adapted to provide a varying dosage wherein after being ingested a discrete amount of the bioactive [fluid]agent is released over different times.

16. (currently amended) The method of claim 1, wherein the step of [activating] dispensing further comprises the step of depositing essentially a drop of a bioactive fluid onto the ingestible sheet wherein the fluid is in the range of from about ten [femto-liter]femtoliters to about [ten-micro-liter] ten microliters volume.

17. (original) A bioactive fluid dose on an ingestible sheet produced by the method of claim 1.

18. (currently amended) The method of claim 1, wherein the step of [activating] dispensing further comprises the step of dispensing the bioactive fluid in overlapping deposits forming essentially a layer of the bioactive fluid.

19. (original) The method of claim 1, wherein the step of activating further comprises the step of activating a second fluid ejector to dispense at least a drop of a second bioactive fluid onto the ingestible sheet.

20. (currently amended) The method of claim 1, wherein the step of activating further comprises the step of activating a plurality of fluid ejectors to [dispense] eject at least a drop of a plurality of bioactive fluids, and wherein the step of dispensing further comprises the step of dispensing the plurality of bioactive fluids in a plurality of two dimensional arrays on a plurality of ingestible sheets wherein the plurality of bioactive fluids are different.

21. (withdrawn) The method of claim 20, further comprising the step of laminating the plurality of ingestible sheets.

22. (withdrawn) A bioactive fluid dose produced by the method of claim 21.

23. (currently amended) The method of claim 1, wherein the step of activating further comprises the step of activating a plurality of fluid ejectors to [dispense] eject at least a drop of a plurality of bioactive fluids, and wherein the step of dispensing further comprises the step of dispensing the plurality of bioactive fluids in a plurality of two dimensional arrays on a plurality of ingestible sheets wherein the plurality of bioactive fluids are different.

24. (original) A bioactive fluid dose produced by the method of claim 23.

25. (withdrawn and currently amended) A tablet produced by [using] the method of claim 1, and further including [a step of] the step of encapsulating the ingestible sheet thereby forming a tablet.

26. (withdrawn) The tablet of claim 25, wherein the ingestible sheet is perforated.

27. (original) The method of claim 1, further comprising the step of printing user information on the ingestible sheet.

Claims 28. to 53. (canceled)

54. (currently amended) A method of manufacturing a bioactive fluid dose on an ingestible sheet comprising the steps of:

inserting a fluid ejection cartridge into a bioactive fluid dispensing system, said cartridge having [containing] a mixture of an ingestible ink and a bioactive fluid in a reservoir forming a printable bioactive fluid;  
[fluidically coupling said reservoir to at least one fluid ejector;]  
advancing the ingestible sheet to a dispense position;  
specifying a user message; and  
printing said user message on the ingestible sheet using said printable bioactive fluid.

Claims 55. to 72. (canceled).

73. (new) The method of claim 1, wherein the step of dispensing the bioactive fluid further comprises dispensing the bioactive fluid in a two-dimensional array onto the ingestible sheet having a water-expandable foam disposed on or within the ingestible sheet.

74. (new) The method of claim 1, wherein the step of dispensing the bioactive fluid further comprises dispensing the bioactive fluid in a two-dimensional array onto the ingestible sheet having a restructured fruit or vegetable material disposed on or within the ingestible sheet.

75. (new) A method of manufacturing a bioactive dosage form, comprising:

advancing an ingestible sheet having at least one dosage region to a dispense position;

activating a fluid ejector to eject a drop of a bioactive fluid; and

dispensing said bioactive fluid in a two-dimensional array of bioactive deposits onto said at least one dosage region, said dosage region having a first edge and a second edge, wherein the density of the two-dimensional array of bioactive deposits varies between the first edge and the second edge, forming a two-dimensional gradient of bioactive deposits.

76. (new) The method of claim 75, further comprising coating said bioactive deposits with an ingestible coating material.

77. (new) The method of claim 76, wherein coating said deposits further comprises activating a second fluid ejector to eject an ingestible barrier component fluid over the dispensed bioactive fluid.

78. (new) The method of claim 75, further comprising forming said ingestible sheet into a three-dimensional gradient of bioactive deposits having a bioactive agent.

79. (new) The method of claim 78, further comprising forming the three-dimensional gradient of bioactive deposits to provide a dosage form wherein after being ingested the amount of the bioactive agent released increases over time.

80. (new) The method of claim 78, further comprising forming the three-dimensional gradient of bioactive deposits to provide a dosage form wherein after being ingested the amount of the bioactive agent released decreases over time.

81. (new) The method of claim 78, further comprising forming the three-dimensional gradient of bioactive deposits to provide a dosage form wherein after being ingested the amount of the bioactive agent released remains constant over time.

82. (new) The method of claim 78, further comprising forming the three-dimensional gradient of bioactive deposits to provide a dosage form wherein after being ingested a discrete amount of the bioactive agent is released in a repeatable manner over time.

83. (new) The method of claim 78, further comprising forming the three-dimensional gradient of bioactive deposits to provide a dosage form wherein after being ingested a discrete amount of the bioactive agent is released over different times.

84. (new) A bioactive dosage form produced by the method of claim 75.

85. (new) A method of manufacturing a bioactive dosage form, comprising:

advancing an ingestible sheet having at least one dosage region to a dispense position;

activating a fluid ejector to eject a drop of a bioactive fluid; and

dispensing said bioactive fluid in a first two-dimensional array of bioactive deposits onto said at least one dosage region;

dispensing an ingestible barrier layer on said first two-dimensional array of bioactive deposits; and

dispensing said bioactive fluid in a second two-dimensional array of bioactive deposits on said ingestible barrier layer forming a three-dimensional array of bioactive deposits on said ingestible sheet.